IN THE ABSTRACT:

Please substitute the following Substitute Abstract for the originally filed Abstract.

A marked up copy of the originally filed Abstract is provided on the following page

indicating the changes made thereto.

Substitute Abstract

An intake air amount control system for an internal combustion engine, which is

capable of ensuring high robustness and improving controllability in intake air amount

control, to thereby improve drivability and reduce exhaust emissions. A control system

of an internal combustion engine, which variably controls the amount of intake air drawn

into cylinders as desired via a variable intake valve actuation assembly includes an

ECU 2. The ECU 2 calculates a cylinder intake air amount Gcyl and a target intake air

amount Gcyl cmd based on a controlled object model, a vector θ s of all model

parameters of the controlled object model with an identification algorithm, calculates a

target auxiliary intake cam phase θ msi cmd based on the vector θ s with a sliding mode

control algorithm, and controls the variable intake valve actuation assembly according to

the target auxiliary intake cam phase θ msi_cmd.

Application Number: 10/561,039

Attorney Docket Number: 108419-00076